

### IN THE CLAIMS:

Cancel claims 1-15 without prejudice.

Add the following new claims:

16. (new) A magnetic recording medium comprising:  
a non-magnetic glass substrate,  
a seed layer formed on the non-magnetic glass substrate,  
a magnetic layer, and  
an underlayer formed between the seed layer and the magnetic layer,  
wherein said seed layer is amorphous or micro crystal, contains at least Ti and Al,  
said magnetic layer contains a Co alloy, has an h.c.p structure and is oriented in (11.0)  
direction relative to the plane parallel with the substrate, and  
said underlayer is oriented in (100) direction relative to the plane parallel with the  
substrate.
17. (new) A magnetic recording medium according to claim 16, wherein said underlayer  
contains Cr or Cr alloy.
18. (new) A magnetic recording medium according to claim 16, wherein the seed layer contains  
at least 35 at% or more and 65 at% or less of Ti, and at least 35 at% or more and 65 at% or less  
of Al based on the entire composition.
19. (new) A magnetic recording medium according to claim 16, wherein the underlayer  
comprises a multi-layered structure having at least two layers, the underlayer of the multi-layered  
structure comprises a first underlayer containing Cr or CrTi and a second underlayer containing  
at least one element selected from the group consisting of Cr, Nb, Mo, Ta, W and Ti, formed  
successively from the side nearer to the substrate.
20. (new) A magnetic recording medium according to claim 16, wherein the underlayer  
comprises one or plurality of underlayers formed on the seed layer, and

said magnetic layer contains CoCr alloy and 0.5 at% or more and 8.0 at% or less of at least one element selected from the group consisting of C, B, Si and Ta.

21. (new) A magnetic recording medium according to claim 20, wherein one or a plurality of intermediate layers containing at least Co and Cr are formed on the one or plurality of underlayers.

22. (new) A magnetic recording medium according to claim 16, wherein said amorphous or micro crystal seed layer is formed by heating the substrate to about 100 °C or higher and 380 °C or lower.

23. (new) A magnetic recording medium according to claim 22, wherein a surface of said amorphous or micro crystal seed layer is oxidized or nitriding.

24. (new) A magnetic recording medium according to claim 22, wherein said seed layer substantially consists of Ti and Al.

25. (new) A magnetic recording apparatus including:

- a magnetic recording medium,
- a driver for driving the magnetic recording medium in the recording direction,
- a magnetic head having a reproducing section and a recording section containing a magnetoresistive sensor, and

a device for moving the magnetic head relative to the magnetic recording medium and a read/write signal processing unit for conducting waveform processing to input signals and output signals to and from the magnetic head,

wherein said magnetic recording medium comprising a non-magnetic glass substrate , a seed layer formed on the non-magnetic glass substrate, a magnetic layer, and an underlayer formed between the seed layer and the magnetic layer,

said seed layer is amorphous or micro crystal, contains at least Ti and Al, said magnetic layer contains a Co alloy, has an h.c.p structure and is oriented in (11.0) direction relative to the

plane parallel with the substrate, and said underlayer is oriented in (100) direction relative to the plane parallel with the substrate.

26. (new) A magnetic recording apparatus according to claim 25, wherein the magnetoresistive sensor is a spin valve type magnetoresistive sensor.

27. (new) A magnetic recording apparatus according to claim 26, wherein the magnetoresistive sensor is a tunnel effect type magnetoresistive sensor.